Additions and Corrections

Solution Homolytic Bond Dissociation Energies of Organotransition-Metal Hydrides [*J. Am. Chem. Soc.* **1989**, *111*, 6711]. MATS TILSET* and VERNON D. PARKER*

Page 6712: The constants 45.6 in eq 12 and 50.3 in eq 15 are in error by 8.0 kcal/mol and should read 53.6 (eq 12) and 58.3 (eq 15). Consequently, the M–H BDE in Table II should be 8 kcal/mol greater than indicated. The electrode potentials used in the equations are referred to the (H^+/H_2) electrode in acetonitrile. When using this potential scale no correction for the free energy of transfer of the proton from acetonitrile to water is necessary. This correction was erroneously made in eq 12 and 15. The relative values of the BDE in Table II are not affected by the correction.

^{15}N Chemical Shifts of Backbone Amides in Bovine Pancreatic Trypsin Inhibitor and Apamin [*J. Am. Chem. Soc.* **1989**, *111*, 7716–7722]. JOHN GLUSHKA, MARIA LEE, SCOTT COFFIN, and DAVID COWBURN*

Page 7719, Table III: The values were not calculated correctly for the model discussed in the text. The revised Table III is presented with the changes in columns 2, 3, 4, 5, and 6. The values for Arg, His, Lys, and Pro have been changed in column 2. In addition, the values for the *N*-acetyl amino acids in column 2 have been referenced where appropriate.

Page 7718, Table I: $\Delta\delta^{15}N$ values for the following residues are corrected—G12 (−4.1), K15 (−10.5), F33 (−3.4), G36 (+2.9), R39 (−13.1), K41 (−2.9), S47 (−8.7), C55 (−6.3), G57 (−0.5). The $\delta^{15}N$ value for S47 is 108.8 ppm.

Page 7718, Table II: The $\Delta\delta^{15}N$ values in column 7 should be Asn-2 (+3.7), Cys-3 (−0.6), Lys-4 (−6.2), Ala-5 (−6.3), Glu-7 (−0.3), Thr-8 (−5.0), Ala-9 (+0.3), Leu-10 (−2.5), Cys-11 (−4.0), Ala-12 (−2.7), Arg-13 (−7.2), Arg-14 (−5.9), Cys-15 (−4.4), Gln-16 (−4.8), Gln-17 (−4.7), His-18 (−4.1).

Page 7720, Table IV: Two values, for F33 and G36, taken from Table I should be changed to agree with the corrected values in Table I (F33, −4.9 → −3.4; G36, +1.9 → +2.9).

Page 7720, paragraph 6, bottom right column: The corrected values for A9 and R13 should be used in the text, and the reference to A12 deleted. The paragraph should read as follows—A similar comparison of the apamin data (pH 2.2) to random-coil chemical shift values reveals the same wide variation. For example, A9 ($\Delta\delta^{15}N = +0.3$) is downfield, which is compatible with participation in multiple hydrogen bonds.[33,53] However, R13, C11, L10, and Q16 all have similar hydrogen bond patterns and yet are all relatively upfield. R13 in particular is a donor amide and the preceding carbonyl of A12 is an acceptor, yet it is 7.2 ppm upfield of its random-coil value.

Page 7722, left column, lines 9–15 T8 should be T11 in both instances, and the value for S47 should be 8.7. Thus sentences 2 and 3 should read as follows—For example, T11 and S47 have shift differences from their random coil analogues of 14.9 ppm downfield and 8.7 ppm upfield, respectively. However, a 7-Å radius around each amide shows very similar environments in terms of distances from the nitrogens to aromatic groups, carbonyl groups, and other amides, although the S47 amide is in a more hydrophobic environment with less accessible surface area than the T11 amide.

Table III. ^{15}N Chemical Shifts of *N*-Acetyl Amino Acids^a and Random Coil Peptides^b

		neighboring residue$_{i-1}$			
residue$_i$	*N*-acetyl	Gly,Ala	β-methylene^c	Val	Ile
Ala	125.7^d	124.3	126.2	127.7	128.7
Arg	126.1^e	124.7	126.6	128.1	129.1
Asn	123.2^f	121.8	123.7	125.2	126.2
Asp	121.6^e	120.2	122.1	123.6	124.6
Cys	120.6^g	119.2	121.1	122.6	123.6
Gln	123.7^f	122.3	124.2	125.7	126.7
Glu	122.0^e	120.6	122.5	124.0	125.0
Gly	110.7^d	109.3	111.2	112.7	113.7
His	123.2^h	121.8	123.7	125.2	126.2
Ile	120.6^g	121.1	123.0	124.5	125.5
Leu	123.3^g	121.9	123.8	125.3	126.3
Lys	125.5^h	124.1	126.0	127.5	128.5
Met	121.6^e	120.2	122.1	123.6	124.6
Phe	122.3^e	120.9	122.8	124.3	125.3
Pro	132.4^g	131.0	132.9	134.4	135.4
Ser	117.0^e	115.6	117.5	119.0	120.0
Thr	111.9^e	110.5	112.4	113.9	114.9
Trp	123.6^e	122.2	124.1	125.6	126.6
Tyr	123.4^f	122.0	123.9	125.4	126.4
Val	119.3^d	119.8	121.7	123.2	124.2

[a] *N*-Acetyl amino acids in DMSO, ppm relative to NH_3. The values for Arg, His, Lys, and Pro have been corrected from the original table. [b] Calculated values for random coil peptides in H_2O, ppm relative to NH_3. [c] All residues containing a side chain β-methylene, i.e. Asp, Asn, Glu, Gln, Arg, Lys, Phe, Thr, Tyr, Trp, His, Leu, Ser, Pro, Met, Cys. [d] Values from ref 1. [e] Measured in DMSO. [f] Values from ref 4. [g] Values from: Hawkes, G. E.; Randall, E. W.; Bradley, C. H. *Nature* **1975**, *257*, 767–772. [h] Measured in H_2O; DMSO value calculated with −5.7 ppm correction based on measured differences for NAcAla and NAcArg in DMSO and H_2O.

σ-Bond Metathesis Reactions of Si–H and M–Si Bonds. New Routes to d^0 Metal Silyl Complexes [*J. Am. Chem. Soc.* **1989**, *111*, 3757]. HEE-GWEON WOO and T. DON TILLEY*

The compounds CpCp*ZrHCl and CpCp*HfHCl are incorrectly reported to be dimeric. Solution molecular weight measurements (in benzene) are actually more consistent with monomeric structures.

Dehydrogenative Polymerization of Silanes to Polysilanes by Zirconocene and Hafnocene Catalysts. A New Polymerization Mechanism [*J. Am. Chem. Soc.* **1989**, *111*, 8043]. HEE-GWEON WOO and T. DON TILLEY*

The compounds CpCp*ZrHCl and CpCp*HfHCl are incorrectly reported to be dimeric. Solution molecular weight measurements (in benzene) are actually more consistent with monomeric structures.